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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------------|----------------|----------------------|-------------------------|------------------|
| 09/932,291 | 08/17/2001 | Gary L. Cantrell | MRD/53 | 4770 |
| 26875 7: | 590 01/13/2004 | | EXAMINER | |
| WOOD, HERRON & EVANS, LLP | | | JONES, DAMERON LEVEST | |
| 2700 CAREW TOWER 441 VINE STREET | | | ART UNIT | PAPER NUMBER |
| CINCINNATI, | OH 45202 | | 1616 | |
| | | | DATE MAILED: 01/13/2004 | ļ |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | _ | | | |
|---|---|---|--|---|--|--|--|
| Office Action Summary | | 09/932,291 | CANTRELL ET AL. | | | | |
| | | Examiner | Art Unit | | | | |
| | • | D. L. Jones | 1616 | | | | |
| | The MAILING DATE of this communication | | | | | | |
| Period fo | or Reply | • | · | | | | |
| THE - Exte after - If the - If NO - Failu - Any | ORTENED STATUTORY PERIOD FOR RIMALING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication experiod for reply specified above is less than thirty (30) days, to period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by steply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b). | ON. FR 1.136(a). In no event, however, n n. a reply within the statutory minimum eriod will apply and will expire SIX (6 statute, cause the application to beco | nay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133). | | | | |
| 1)[| Responsive to communication(s) filed on _ | · | | | | | |
| 2a) <u></u> □ | This action is FINAL . 2b) | This action is non-final. | | | | | |
| 3)□ | Since this application is in condition for allo closed in accordance with the practice und | | | | | | |
| Dispositi | on of Claims | | | | | | |
| 4)⊠ | Claim(s) 1-47 is/are pending in the applica | ation. | • | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5)□ | Claim(s) is/are allowed. | | | | | | |
| 6)□ | ☐ Claim(s) is/are rejected. | | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | | |
| 8)⊠ | Claim(s) <u>1-47</u> are subject to restriction and | d/or election requirement. | | | | | |
| Applicati | on Papers | | | | | | |
| 9) | The specification is objected to by the Exar | miner. | | | | | |
| 10) | The drawing(s) filed on is/are: a) | accepted or b)☐ objecte | d to by the Examiner. | | | | |
| | Applicant may not request that any objection to | the drawing(s) be held in ab | eyance. See 37 CFR 1.85(a). | | | | |
| | Replacement drawing sheet(s) including the co | rrection is required if the dra | wing(s) is objected to. See 37 CFR 1.121(d). | | | | |
| 11) | The oath or declaration is objected to by the | e Examiner. Note the atta | ched Office Action or form PTO-152. | | | | |
| Priority L | ınder 35 U.S.C. §§ 119 and 120 | , | | | | | |
| | Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority documents. | nents have been received | | | | | |
| * 0 | Certified copies of the priority docum Copies of the certified copies of the application from the International Busee the attached detailed Office action for a | priority documents have b reau (PCT Rule 17.2(a)). | een received in this National Stage | | | | |
| 13) <u> </u> | scknowledgment is made of a claim for dom nce a specific reference was included in the 7 CFR 1.78. | nestic priority under 35 U.s e first sentence of the spe | S.C. § 119(e) (to a provisional application) cification or in an Application Data Sheet. | | | | |
| |) The translation of the foreign language | • | | | | | |
| | cknowledgment is made of a claim for dom ference was included in the first sentence of | | | | | | |
| Attachmen | t(s) | | | | | | |
| 2) 🔲 Notic | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449) Paper No |) 5) Notice | iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152) | | | | |

Application/Control Number: 09/932,291

Art Unit: 1616

RESTRICTION INTO GROUPS

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-10, drawn to a method of enhancing binding of a compound as set forth in independent claim 1, classified in class 424, subclass 1.11+.
 - II. Claims 11-17, drawn to a target binding composition comprising a lamellar containing conjugate as set forth in independent claim 11, classified in class 424, subclass 1.73+.
 - III. Claims 18-28, drawn to a method of enhancing the affinity of binding compounds as set forth in independent claim 18, classified in class 424, subclass 9.2.
 - IV. Claims 29-47, drawn to a method of performing a diagnostic or therapeutic procedure as set forth in independent claim 29, classified in class 424, subclass 9.1.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions (II and I), (II and III) and (II and IV) are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product may be used in various processes such as (a) enhancing the affinity of binding to compounds as set forth in independent claim 18; (b) enhancing binding of a binding

Application/Control Number: 09/932,291

Page 3

Art Unit: 1616

compound to a target site as set forth in independent claim 1; or (s) performing a diagnostic or therapeutic procedure on a patient as set forth in independent claim 29.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

ELECTION OF SPECIES

4. Claims 1-47 are generic to a plurality of disclosed patentably distinct species comprising multicomponent conjugate assemblies. The assemblies may comprise various linkers (e.g., see claim 27), targets (e.g., see claim 19), A1 and A2 components (e.g., see claim 25), B1 and B2 components (e.g., see claim 31, and or diagnostic or therapeutic metals (e.g., see claim 40). Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Note: The Examiner respectfully requests that Applicant a single discloses species for search purposes from within the elected group. Applicant is requested to identify all of the components of the multicomponent conjugate (e.g, A1 = CF3(CH2)a; a = 16; B1 =glucose; etc.). In addition, Applicant is requested to identify which claims are directed to the elected species.

5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

Application/Control Number: 09/932,291

Art Unit: 1616

case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 6. A telephone call was not made to request an oral election to the above restriction requirement due to the complexity of the restriction requirement.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (703) 308-4640. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (703) 308 - 2927. The fax phone

Art Unit: 1616

number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Primary Examiner Art Unit 1616

January 9, 2004